

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/516,406  
Source: PCT  
Date Processed by STIC: 2-1-06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 02/01/2006

PATENT APPLICATION: US/10/516,406

TIME: 14:40:57

Input Set : A:\pto.kd.txt

Output Set : N:\CRF4\02012006\J516406.raw

3 <110> APPLICANT: Centre for Addiction and Mental Health  
 5 <120> TITLE OF INVENTION: Detection of Epigenetic Abnormalities and Diagnostic Method  
 Based Thereon

7 &lt;130&gt; FILE REFERENCE: 04340-PCT-PA(0148.0041)

9 &lt;140&gt; CURRENT APPLICATION NUMBER: 10/516,406

10 &lt;141&gt; CURRENT FILING DATE: 2004-12-01

12 &lt;150&gt; PRIOR APPLICATION NUMBER: PCT/CA03/00820

13 &lt;151&gt; PRIOR FILING DATE: 2003-06-06

15 &lt;150&gt; PRIOR APPLICATION NUMBER: 60/386,818

16 &lt;151&gt; PRIOR FILING DATE: 2002-06-06

18 &lt;160&gt; NUMBER OF SEQ ID NOS: 263

20 &lt;170&gt; SOFTWARE: PatentIn version 3.1

22 &lt;210&gt; SEQ ID NO: 1

23 &lt;211&gt; LENGTH: 148

24 &lt;212&gt; TYPE: DNA

25 &lt;213&gt; ORGANISM: Homo sapiens

27 &lt;220&gt; FEATURE:

28 &lt;221&gt; NAME/KEY: misc\_feature

29 <223> OTHER INFORMATION: consensus sequence of a subfamily of Alu repeats having  
 accession

30 number U14570

33 &lt;400&gt; SEQUENCE: 1

34 ggccggggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggtgga 60

36 tcatgaggtc aggagatcga gaccatcctg gctaacaagg tgaaaccccg tctctactaa 120

38 aaatacaaaa aattagccgg gcgcgggtg 148

41 &lt;210&gt; SEQ ID NO: 2

42 &lt;211&gt; LENGTH: 20

43 &lt;212&gt; TYPE: DNA

44 &lt;213&gt; ORGANISM: Artificial

46 &lt;220&gt; FEATURE:

47 &lt;223&gt; OTHER INFORMATION: primer 'Alu For' (see Example 1)

49 &lt;400&gt; SEQUENCE: 2

50 gcctgtactc ccagcagttt 20

53 &lt;210&gt; SEQ ID NO: 3

54 &lt;211&gt; LENGTH: 20

55 &lt;212&gt; TYPE: DNA

56 &lt;213&gt; ORGANISM: Artificial

58 &lt;220&gt; FEATURE:

60 &lt;223&gt; OTHER INFORMATION: primer 'Alu Rev' (see Example 1)

62 &lt;400&gt; SEQUENCE: 3

63 ggagggtggtt tgcacaatct 20

66 &lt;210&gt; SEQ ID NO: 4

67 &lt;211&gt; LENGTH: 24

68 &lt;212&gt; TYPE: DNA

(Pg. 7)

69 <213> ORGANISM: Artificial

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71 <220> FEATURE:
72 <223> OTHER INFORMATION: primer '1MF' (see Example 2)
74 <400> SEQUENCE: 4
75 cagcgtacac atacacagaa gaga                                24
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 23
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial
83 <220> FEATURE:
84 <223> OTHER INFORMATION: primer '1MR' (see Example 2)
86 <400> SEQUENCE: 5
87 ttcctagtc ccaagtcata gca                                23
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 109
92 <212> TYPE: DNA
93 <213> ORGANISM: Homo sapiens
95 <220> FEATURE:
96 <221> NAME/KEY: misc_feature
97 <223> OTHER INFORMATION: Alu sequence cloned from Sch74-E52m/Sch74-E51m (see Figure 4)
100 <400> SEQUENCE: 6
101 cagctcactg caacctccgc ctcttggtt caagcgattt tcccgcctta gcctcctgag      60
103 taactgggac tagaggcagg taccaccacg cccagctaatt ttttgtatt                109
106 <210> SEQ ID NO: 7
107 <211> LENGTH: 109
108 <212> TYPE: DNA
109 <213> ORGANISM: Homo sapiens
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <223> OTHER INFORMATION: Alu sequence cloned from BD43-E78m/BD43-E83m (see Figure 4)
116 <400> SEQUENCE: 7
117 cggtcgaatg caacctcagc ctcttggtt caagcaattc tctgtctca gcctcccag      60
119 tagctgggat tacaggcaca tgccaccatg cccaactaat ttttgtatt                109
122 <210> SEQ ID NO: 8
123 <211> LENGTH: 109
124 <212> TYPE: DNA
125 <213> ORGANISM: Homo sapiens
127 <220> FEATURE:
128 <221> NAME/KEY: misc_feature
129 <223> OTHER INFORMATION: Alu sequence cloned from BD43-E78m (see Figure 4)
132 <400> SEQUENCE: 8
133 cggtcgaatg caacctcagc ctcttggtt caagcaattc tctgtctca gcctcccag      60
135 tagctgggat tacaggcaca tgccaccatg cccaactaat ttttgtatt                109
138 <210> SEQ ID NO: 9
139 <211> LENGTH: 109
140 <212> TYPE: DNA
141 <213> ORGANISM: Homo sapiens
143 <220> FEATURE:
144 <221> NAME/KEY: misc_feature
145 <223> OTHER INFORMATION: Alu sequence cloned from BD34-D19M (see Figure 4)

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148 <400> SEQUENCE: 9
149 tggctcactg taacctctgc ctctggggtt caagtaattc tctgtctca gcctcctgag      60
151 tagctaggat tactgggtgcc cgccaccatg cccggcaaat tttgtatt      109
154 <210> SEQ ID NO: 10
155 <211> LENGTH: 109
156 <212> TYPE: DNA
157 <213> ORGANISM: Homo sapiens
159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <223> OTHER INFORMATION: Alu sequence cloned from BD34-E62m_ (see Figure 4)
164 <400> SEQUENCE: 10
165 tggctcactg taacctctgc ctctggggtt caagtaattc tctgtctca gcctcctgag      60
167 tagctaggat tactgggtgcc cgccaccatg cccggcaaat tttgtatt      109
170 <210> SEQ ID NO: 11
171 <211> LENGTH: 109
172 <212> TYPE: DNA
173 <213> ORGANISM: Homo sapiens
175 <220> FEATURE:
176 <221> NAME/KEY: misc_feature
177 <223> OTHER INFORMATION: Alu sequence cloned from BD43-15m (see Figure 4)
180 <400> SEQUENCE: 11
181 tggctcactg caacctctac ctctgagtt caagctcttc tctgctca acctccagag      60
183 taattgtgat tacaggtgcc tcccaccaca ccaggctaatt tttgtatt      109
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 109
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo sapiens
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <223> OTHER INFORMATION: Alu sequence cloned from Ctrl57-E5m (see Figure 4)
196 <400> SEQUENCE: 12
197 cagctcactg caacctccat ttctggggtt caagcgattc tctgctca gcctccggag      60
199 tagctgggac cacagacgtg tgccaccatg cctgggtaatt tttcatatt      109
202 <210> SEQ ID NO: 13
203 <211> LENGTH: 110
204 <212> TYPE: DNA
205 <213> ORGANISM: Homo sapiens
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <223> OTHER INFORMATION: Alu sequence cloned from BD43-RevE7m (see Figure 4)
212 <400> SEQUENCE: 13
213 cagctcactg caaccaccac ctcccagggtt caagtgatta tctgctca gcctcccagag      60
215 tagctgggat tacagatgcc caccaacaca ccaggctaatt ttttgtatt      110
218 <210> SEQ ID NO: 14
219 <211> LENGTH: 110
220 <212> TYPE: DNA
221 <213> ORGANISM: Homo sapiens
223 <220> FEATURE:
224 <221> NAME/KEY: misc_feature

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225 <223> OTHER INFORMATION: Alu sequence cloned from BD43-RevE77m (see Figure 4)

228 <400> SEQUENCE: 14

229 cagctcactg caaccaccac ctcccagggt caagtgatta tcttgccctca gcctcccgag 60

231 tagctgggat tacagatgcc caccaacaca ccaggctaatt tttttgtatt 110

234 <210> SEQ ID NO: 15

235 <211> LENGTH: 110

236 <212> TYPE: DNA

237 <213> ORGANISM: Homo sapiens

239 <220> FEATURE:

240 <221> NAME/KEY: misc\_feature

241 <223> OTHER INFORMATION: Alu sequence cloned from BD34-A14M (see Figure 4)

244 <400> SEQUENCE: 15

245 cagcccagtg caagctccgc ctcccagggt cagctcattc tcttgccctca gcctcccgag 60

247 tagctgggat tacaggcgcc cgccaccacg cccagctaatt tttttgtatt 110

250 <210> SEQ ID NO: 16

251 <211> LENGTH: 110

252 <212> TYPE: DNA

253 <213> ORGANISM: Homo sapiens

255 <220> FEATURE:

256 <221> NAME/KEY: misc\_feature

257 <223> OTHER INFORMATION: Alu sequence cloned from Ctrl57-E3m (see Figure 4)

260 <400> SEQUENCE: 16

261 cggtcactg caagctccgc ctcccgggtg cagccattc tcttgccctca gcctcccgag 60

263 tagctgggac tacaggcgcc cgccaccacg cccggctaatt tttttgtatt 110

266 <210> SEQ ID NO: 17

267 <211> LENGTH: 110

268 <212> TYPE: DNA

269 <213> ORGANISM: Homo sapiens

271 <220> FEATURE:

272 <221> NAME/KEY: misc\_feature

273 <223> OTHER INFORMATION: Alu sequence cloned from Sch74-E318m (see Figure 4)

276 <400> SEQUENCE: 17

277 tggtcactg caacctccgc ctcccagggt caagcaattc tcttgccctca gtctcccgag 60

279 tagctgggac taccggcgag tgctaccatg cctgcgtaatt tttttgtact 110

282 <210> SEQ ID NO: 18

283 <211> LENGTH: 110

284 <212> TYPE: DNA

285 <213> ORGANISM: Homo sapiens

287 <220> FEATURE:

288 <221> NAME/KEY: misc\_feature

289 <223> OTHER INFORMATION: Alu sequence cloned from Sch74-E318\_m (see Figure 4)

292 <400> SEQUENCE: 18

293 tggtcactg caacctccgc ctcccagggt caagcaattc tcttgccctca gtctcccgag 60

295 tagctgggac taccggcgag tgctaccatg cctgcgtaatt tttttgtact 110

298 <210> SEQ ID NO: 19

299 <211> LENGTH: 110

300 <212> TYPE: DNA

301 <213> ORGANISM: Homo sapiens

303 <220> FEATURE:

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304 <221> NAME/KEY: misc_feature
305 <223> OTHER INFORMATION: Alu sequence cloned from Ctrl57-E4m (see Figure 4)
308 <400> SEQUENCE: 19
309 tggctcactg caacctccgc ctcccagggt caagcaattc tcttgccctca gtctcccagag      60
311 tagctggggac taccggcgag tgctaccatg cctgcgtaat tttttgtact      110
314 <210> SEQ ID NO: 20
315 <211> LENGTH: 110
316 <212> TYPE: DNA
317 <213> ORGANISM: Homo sapiens
319 <220> FEATURE:
320 <221> NAME/KEY: misc_feature
321 <223> OTHER INFORMATION: Alu sequence cloned from BD43-E79m (see Figure 4)
324 <400> SEQUENCE: 20
325 cagctcactg caacctccgt ttcccagggt caaccgattc tcttgccctca gacctctgaa      60
327 gcggtgggga ctacagggtgc ctgccacctc acccggttaa tttttgtatt      110
330 <210> SEQ ID NO: 21
331 <211> LENGTH: 108
332 <212> TYPE: DNA
333 <213> ORGANISM: Homo sapiens
335 <220> FEATURE:
336 <221> NAME/KEY: misc_feature
337 <223> OTHER INFORMATION: Alu sequence cloned from Ctrl57-E6m (see Figure 4)
340 <400> SEQUENCE: 21
341 cagctcacca caacctccgc ctctggggtt ccagcgattc tcttgccctcg gcctcccaag      60
343 tagctgggat tacaggcacg caccaataca cctgggcta tttgtatt      108
346 <210> SEQ ID NO: 22
347 <211> LENGTH: 108
348 <212> TYPE: DNA
349 <213> ORGANISM: Homo sapiens
351 <220> FEATURE:
352 <221> NAME/KEY: misc_feature
353 <223> OTHER INFORMATION: Alu sequence cloned from Ctrl57-E6m (see Figure 4)
356 <400> SEQUENCE: 22
357 cagctcacca caacctccgc ctctggggtt ccagcgattc tcttgccctcg gcctcccaag      60
359 tagctgggat tacaggcacg caccaataca cctgggcta tttgtatt      108
362 <210> SEQ ID NO: 23
363 <211> LENGTH: 110
364 <212> TYPE: DNA
365 <213> ORGANISM: Homo sapiens
367 <220> FEATURE:
368 <221> NAME/KEY: misc_feature
369 <223> OTHER INFORMATION: Alu sequence cloned from Ctrl50-RevE169m (see Figure 4)
372 <400> SEQUENCE: 23
373 cagctctcca caacctccgc catcgtgggt tccagcagat tctctgcct cggcctccca      60
375 agtagctggg aatacaggca cgctccaata cacctggcta attatgtatt      110
378 <210> SEQ ID NO: 24
379 <211> LENGTH: 109
380 <212> TYPE: DNA
381 <213> ORGANISM: Homo sapiens

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/516,406

DATE: 02/01/2006  
TIME: 14:40:58

Input Set : A:\pto.kd.txt  
Output Set: N:\CRF4\02012006\J516406.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:41; N Pos. 575 ✓  
Seq#:45; N Pos. 11,16  
Seq#:49; N Pos. 15  
Seq#:52; N Pos. 469,490,508,538,550,552,557  
Seq#:60; N Pos. 368  
Seq#:227; N Pos. 49

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:2,3,4,5



**VERIFICATION SUMMARY**

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Input Set : A:\pto.kd.txt

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L:885 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:540  
L:1001 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0  
L:1123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
L:1273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:420  
M:341 Repeated in SeqNo=52  
L:1529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:360  
L:5543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:227 after pos.:0